AMENDMENTS TO THE CLAIMS

- 1-3. (Cancelled).
- 4. (Previously Presented) A pellicle comprising a pellicle film made of a fluorinecontaining polymer and a pellicle frame for supporting the pellicle film, wherein

the pellicle film is adhered to the pellicle frame through an adhesive layer comprising a fluorine-containing polymer and a substance resulting from curing of an ultraviolet-curing fluorine-containing monomer, wherein the ultraviolet-curing fluorine-containing monomer is at least one kind of monomer selected from the group consisting of general formulas (1), (2) and (3):

$$C H_2 = C - C O_2 - (C R^2 H)_1 - R f \cdots (1)$$

$$C H_2 = C - C O_2 - (C R^2 H)_m - R f - (C R^3 H)_n - C O_2 - C = C H_2$$
 I
 R^4
...(2)

wherein R¹ and R⁴ each independently representing hydrogen or a methyl group, R² and R³ each independently representing hydrogen or a hydroxyl group, Rf is a fluorine-containing group, and l, m and n each are an integer of 1 to 8, and the fluorine-containing polymer of

said adhesive is a copolymer comprising structural units represented by the following formulas (4), (5), and (6):

- $-C_2F_4-$...(4)
- $-C_3H_6$...(5)
- $-C_2H_2F_2-$...(6).
- 5. (Previously Presented) A method for producing a pellicle including a pellicle film made of a fluorine-containing polymer and a pellicle frame for supporting the pellicle film, comprising

adhering the pellicle film to the pellicle frame through an adhesive comprising a fluorine-containing polymer and an ultraviolet-curing fluorine-containing monomer, wherein the ultraviolet-curing fluorine-containing monomer is at least one kind of monomer selected from the group consisting of general formulas (1), (2) and (3):

$$C H_2 = C - C O_2 - (C R^2 H)_1 - R f$$
 ...(1)

$$C H_2 = C - C O_2 - (C R^2 H)_m - R f - (C R^3 H)_n - C O_2 - C = C H_2$$
 I
 R^4
...(2)

wherein R¹ and R⁴ each independently representing hydrogen or a methyl group, R² and R³ each independently representing hydrogen or a hydroxyl group, Rf is a fluorine-containing group, and 1, m and n each are an integer of 1 to 8, and the fluorine-containing polymer of said adhesive is a copolymer comprising structural units represented by the following formulas (4), (5), and (6):

- $-C_2F_4$...(4)
- $-C_3H_6-$...(5)
- $-C_2H_2F_2-$...(6).
 - 6. (Cancelled).
- 7. (Previously Presented) The pellicle as recited in claim 4, wherein the fluorine-containing polymer of said adhesive is a copolymer comprising structural units represented by formula (7):

$$-(C_2F_4)_a-(C_3H_6)_b-(C_2H_2F_2)_c-$$
 ...(7)

wherein each of a, b and c is a positive integer.

8. (Previously Presented) The method as recited in claim 5, wherein the fluorine-containing polymer of said adhesive is a copolymer comprising structural units represented by formula (7):

$$-(C_2F_4)_a$$
- $(C_3H_6)_b$ - $(C_2H_2F_2)_c$ - ...(7)

wherein each of a, b and c is a positive integer.

Application No. 10/026,805 Amendment dated March 9, 2006 Docket No.: 2342-0131P

9. (Cancelled).

10. (Previously Presented) The pellicle as recited in claim 4, wherein the ratio between

the fluorine-containing polymer of said adhesive and the ultraviolet-curing fluorine-

containing monomer contained in the adhesive layer is fluorine-containing

polymer:ultraviolet-curing fluorine-containing monomer = 1: 0.25 to 0.5 (weight ratio) in

the case of monoacrylate fluorine-containing monomer represented by general formula (2);

and fluorine-containing polymer:ultraviolet-curing fluorine-containing monomer = 1:0.25 to

3 (weight ratio) in the case of diacrylate fluorine-containing monomer represented by general

formula (3) or (4).

11. (Previously Presented) The method as recited in claim 5, wherein the ratio between

the fluorine-containing polymer of said adhesive and the ultraviolet-curing fluorine-

containing monomer contained in the adhesive is fluorine-containing polymer:ultraviolet-

curing fluorine-containing monomer = 1: 0.25 to 0.5 (weight ratio) in the case of

monoacrylate fluorine-containing monomer represented by general formula (2); and fluorine-

containing polymer:ultraviolet-curing fluorine-containing monomer = 1:0.25 to 3 (weight

ratio) in the case of diacrylate fluorine-containing monomer represented by general formula

(3) or (4).

12. (Cancelled).

13. (Currently Amended) The pellicle as recited in claim 4, wherein the ultravioletcuring fluorine-containing monomer represented by general formula (1) is at least one selected from the group consisting of:

$$C H_2 = C H - C O_2 - C H_2 - C H - C H_2 (C F_2)_3 C F_3$$

$$I$$

$$O H$$

$$C H_2 = C - C O_2 - C H_2 - C H_2 (C F_2)_7 C F_3$$

$$C H_3$$

$$C H_2 = C - C O_2 - C H_2 - C H_2 (C F_2)_3 C F_3$$

$$I$$

$$C H_3$$

$$C F_3$$

$$C H_2 = C - C O_2 - C H$$

$$I$$

$$C H_3$$

$$C F_3$$

$$C H_2 = C - C O_2 - C H_2 - (C F_2)_3 C F_2 H$$

$$C H_3$$

 $CH_2=CH-CO_2-CH_2-CH_2-(CF_2)_9CF_3$

$$C F_3$$
 $C H_2 = C H - C O_2 - C H_2 - C H_2 (C F_2)_8 C F$
 $C F_3$

 $CH_2=CH-CO_2-CH_2(CF_2)_4CH_2OH$

$$C H_2 = C H - C O_2 - C H_2 - C F - O (C F_2)_4 C F_3$$

|
 $C F_3$

 $CH_2=CH-CO_2-(CH_2)_6-(CF_2)_5CF_3$

$$C H_2 = C H - C O_2 - C H_2 - C F - O - C F_2 - C F - O - (C F_2)_4 C F_3$$

$$C F_3 \qquad C F_3$$

 $CH_2=CH-CO_2-CH_2-(CF_2)_5CF_2H$

 $CH_2=CH-CO_2-(CH_2)_6(CF_2)_3CF_3$ and

$$\begin{array}{c} O \ H \\ I \\ C \ H_2 = C \ H - C \ O_2 - C \ H_2 - C \ H - C \ H_2 (C \ F_2)_8 \ C \ F \end{array}$$

14. (Currently Amended) The method as recited in claim 5, wherein the ultravioletcuring fluorine-containing monomer represented by general formula (1) is at least one selected from the group consisting of:

$$C H_2 = C H - C O_2 - C H_2 - C H - C H_2 (C F_2)_3 C F_3$$

$$I$$

$$O H$$

$$C H_2 = C - C O_2 - C H_2 - C H_2 (C F_2)_7 C F_3$$

$$I$$

$$C H_3$$

$$C H_2 = C - C O_2 - C H_2 - C H_2 (C F_2)_3 C F_3$$

$$C H_3$$

$$C F_3$$

$$C H_2 = C - C O_2 - C H$$

$$C H_3$$

$$C F_3$$

$$C H_2 = C - C O_2 - C H_2 - (C F_2)_3 C F_2 H$$

$$I$$

$$C H_3$$

 CH_2 =CH- CO_2 - CH_2 - CH_2 - $(CF_2)_9$ CF_3

$$C F_3$$
 $C H_2 = C H - C O_2 - C H_2 - C H_2 (C F_2)_8 C F$
 $C F_3$

CH₂=CH-CO₂-CH₂(CF₂)₄CH₂OH

$$C H_2 = C H - C O_2 - C H_2 - C F - O (C F_2)_4 C F_3$$

$$C F_3$$

CH₂=CH-CO₂-(CH₂)₆-(CF₂)₅CF₃

$$C H_2 = C H - C O_2 - C H_2 - C F - O - C F_2 - C F - O - (C F_2)_4 C F_3$$

$$I \qquad I \qquad I \qquad C F_3 \qquad C F_3$$

 $CH_2=CH-CO_2-CH_2-(CF_2)_5CF_2H$

CH₂=CH-CO₂-(CH₂)₆(CF₂)₃CF₃ and

15. (Cancelled).

16. (Previously Presented) The pellicle as recited in claim 4, wherein the ultravioletcuring fluorine-containing monomer represented by general formula (2) is at least one selected from the group consisting of:

$$CH_2$$
= CH - CO_2 - CH_2 - $(CF_2)_2$ - CH_2 - CO_2 - CH = CH_2

$$CH_2$$
= CH - CO_2 - CH_2 - $(CF_2)_4$ - CH_2 - CO_2 - CH = CH_2

$$CH_2=CH-CO_2-CH_2-(CF_2)_8-CH_2-CO_2-CH=CH_2$$

$$CH_2$$
= CH_2 - CO_2 - $(CH_2)_n$ - $(CF_2)_4$ - $(CH_2)_m$ - CO_2 - CH = CH_2

(n and m are respectively 1 to 3)

$$CH_2=C(CH_3)-CO_2-(CH_2)_n-(CF_2)_4-(CH_2)_m-CO_2-CH=CH_2$$
(n and m are respectively 1 to 3)

$$CH_2=C(CH_3)-CO_2-(CH_2)_n-(CF_2)_4-(CH_2)_m-CO_2-C(CH_3)=CH_2$$
(n and m are respectively 1 to 3) and

$$CH_2$$
= CH - CO_2 - CH (OH)- $(CF_2)_4$ - $(CH)_n$ - CO_2 - CH = CH_2
(n is 1 to 3).

17. (Previously Presented) The method as recited in claim 5, wherein the ultravioletcuring fluorine-containing monomer represented by general formula (2) is at least one selected from the group consisting of:

$$CH_2$$
= CH - CO_2 - CH_2 - $(CF_2)_2$ - CH_2 - CO_2 - CH = CH_2

$$CH_2=CH-CO_2-CH_2-(CF_2)_8-CH_2-CO_2-CH=CH_2$$

$$CH_2=CH-CO_2-(CH_2)_n-(CF_2)_4-(CH_2)_m-CO_2-CH=CH_2$$

(n and m are respectively 1 to 3)

$$CH_2=C(CH_3)-CO_2-(CH_2)_n-(CF_2)_4-(CH_2)_m-CO_2-CH=CH_2$$

(n and m are respectively 1 to 3)

$$CH_2=C(CH_3)-CO_2-(CH_2)_n-(CF_2)_4-(CH_2)_m-CO_2-C(CH_3)=CH_2$$

(n and m are respectively 1 to 3) and

$$CH_2$$
= CH - CO_2 - CH (OH)- $(CF_2)_4$ - $(CH)_n$ - CO_2 - CH = CH_2 (n is 1 to 3).

18. (Cancelled).

19. (Previously Presented) The pellicle as recited in claim 5, wherein the ultravioletcuring fluorine-containing monomer represented by general formula (3) is at least one selected from the group consisting of:

$$C H_2 = C H - C O_2 - (C H_2) - C H - (C H_2) - (C F_2)_3 C F_3$$

$$I$$

$$O_2 C - C H = C H_2$$

$$C H_2 = C H - C O_2 - (C H_2) - C H - (C H_2) - (C F_2)_5 C F_3$$

$$I$$

$$O_2 C - C H = C H_2$$

$$C H_2 = C H - C O_2 - (C H_2) - C H - (C H_2) - (C F_2)_7 C F_3$$

$$I$$

$$O_7 C - C H = C H_2$$

$$C H_2 = C H - C O_2 - (C H_2)_n - C H - (C H_2)_m - (C F_2)_3 C F_3$$

$$| O_2 C - C H = C H_2$$
(n and m are respectively 1 to 3)

and

$$C H_2 = C H - C O_2 - (C H_2)_n - C H - (C H_2)_m - (C F_2)_3 C F_3$$

$$| O_2 C - C (C H_3) = C H_2$$
(n and m are respectively 1 to 3)

20. (Previously Presented) The method as recited in claim 5, wherein the ultravioletcuring fluorine-containing monomer represented by general formula (3) is at least one selected from the group consisting of:

$$C H_2 = C H - C O_2 - (C H_2) - C H - (C H_2) - (C F_2)_3 C F_3$$

$$| O_2 C - C H = C H_2$$

$$C H_2 = C H - C O_2 - (C H_2) - C H - (C H_2) - (C F_2)_5 C F_3$$

$$I$$

$$O_2 C - C H = C H_2$$

$$C H_2 = C H - C O_2 - (C H_2) - C H - (C H_2) - (C F_2)_7 C F_3$$

$$I$$

$$O_2 C - C H = C H_2$$

$$C H_2 = C H - C O_2 - (C H_2)_n - C H - (C H_2)_m - (C F_2)_3 C F_3$$

$$| O_2 C - C H = C H_2$$

$$(n and m are respectively 1 to 3)$$

and

$$C H_2 = C H - C O_2 - (C H_2)_n - C H - (C H_2)_m - (C F_2)_3 C F_3$$

$$| O_2 C - C (C H_3) = C H_2$$
(n and m are respectively 1 to 3)

21. (Cancelled).

- 22. (New) The pellicle as recited in claim 4, wherein in the ultraviolet-curing fluorine-containing monomer according to general formulas (1), (2) and (3), R^1 and R^4 each represent a methyl group.
- 23. (New) The method as recited in claim 5, wherein in the ultraviolet-curing fluorine-containing monomer according to general formulas (1), (2) and (3), R¹ and R⁴ each represent a methyl group.